

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on April 2, 2010 has been entered.

3. Authorization for this examiner's amendment was given in a telephone interview with Neslihan I. Doran (Reg. No. 64,883) on September 24, 2010.

4. Amend the claims as follows:

1-18. (Canceled)

19. (Currently Amended) A system for transferring data from a data source to multiple data sink objects, the system comprising:

a data source holding acquired data;

an interface ~~for~~ communicating with the data source to receive the data from the data source;

a plurality of data sink objects including one or more application software tools or one or more output devices;

a processor controlling a data processor that encapsulates the received data into a data object;

one or more memory storages ~~for~~ storing the data object along with a data object pointer and a data server object, the data object pointer indicating a location of the data object in the one or more memory storages to identify the data object, ~~the data server object for;~~

the data processor posting the data object along with the data object pointer; ~~to the data server object, and~~ registering one or more of the plurality of data sink objects with the data server object;

the data server object transferring the data object pointer to the one or more registered multiple data sink objects ~~the data object pointer~~, the one or more registered data sink objects accessing the data object using the data object pointer; and

the data server object sharing the data object among the one or more registered data sink objects to prevent extraneous copies of the received data from being provided to the one or more registered data sink objects.

20. (Previously Presented) The system of claim 19 wherein the data server object includes a list listing the one or more registered data sink objects that are registered with the data server object.

21. (Currently Amended) The system of claim 19 wherein the ~~computer~~ system provides a technical computing environment.

22. (Canceled)

23. (Previously Presented) The system of claim 19 further comprising at least one data listener object that is registered to a respective one of the one or more registered data sink objects.

24. (Previously Presented) The system of claim 23, wherein the respective one of the one or more registered data sink objects deletes each of the at least one data listener object registered with the respective one of the one or more registered data sink objects when the respective one of the one or more registered data sink objects is deleted.

25. (Previously Presented) The system of claim 23, wherein the respective one of the one or more registered data sink objects notifies each of the at least one data listener object registered with the respective one of the one or more registered data sink objects when the respective one of the one or more registered data sink objects is deleted.

26. (Previously Presented) The system of claim 23, wherein the respective one of the one or more registered data sink objects notifies each of the at least one data listener object when the respective one of the one or more registered data sink objects is updated with a new data object.

27. (Original) The system of claim 19 wherein the data source provides data sequence continuously for a period of time.

28. (Original) The system of claim 19 wherein the data source provides a package of data, the package of data being used independently of other packages of data.

29. (Original) The system of claim 28 wherein the package of data includes a frame of image data.

30. (Currently Amended) The system of claim 28 wherein the package of data includes a scan of radar data, sensor data, or audio data, ~~as well as~~ or network data packets.

31. (Previously Presented) The system of claim 19 wherein the data processor configures a maximum amount of memory that all data objects use at a given instance of time.

32. (Previously Presented) The system of claim 19, wherein the processor is 64 bits or more.

33. (Canceled).

34. (Currently Amended) A ~~physical~~ non-transitory computer readable medium holding instructions executable in a computer system, wherein the computer system receives data from a data source and transfers the data to data sink objects, the medium holding:

one or more instructions for communicating with the data source to receive the data from the data source;

one or more instructions for encapsulating the data into a data object; ~~one or more instructions for storing the data object along with a data object pointer and a data server object~~ in a memory, the data object pointer indicating a location of the data object in the memory to identify the data object;

one or more instructions for posting the data object along with a data object pointer to ~~[[a]] the data server object, the data object pointer indicating location of the data object in the memory;~~

one or more instructions for registering the data sink objects with the data server object, the data sink objects including one or more application software tools or one or more output devices;

one or more instructions for the data server object transferring to the registered

data sink objects the data object pointer, the registered data sink objects accessing the data object using the data object pointer; and

one or more instructions for the data server object sharing the data object among the registered data sink objects to prevent extraneous copies of the data from being provided to the registered data sink objects.

35. (Previously Presented) The medium of claim 34 further comprising a data sink listener object that is registered with one or more of the registered data sink objects.

36. (Previously Presented) The medium of claim 34 wherein the computer system provides a technical computing environment.

37. (Previously Presented) The medium of claim 35 wherein the data sink listener object performs a task relating to a function of a respective one of the registered data sink objects.

38. (Previously Presented) The medium of claim 35 wherein the data sink listener object performs a task relating to a function of a respective one of the registered data sink objects on a thread of the data server object.

39. (Previously Presented) The medium of claim 35 wherein the data sink listener object performs a task relating to a function of a respective one of the registered data sink

objects on a thread different from that of the data server object.

40. (Previously Presented) The medium of claim 34 wherein at least one of the registered data sink objects performs a function on a thread of the data server object.

41. (Previously Presented) The medium of claim 34 wherein at least one of the registered data sink objects performs a function on a thread different from that of the data server object.

42. (Canceled).

43. (Original) The medium of claim 34 wherein the instructions are originated from code written with C programming language.

44. (Currently Amended) The medium of claim 34 wherein the instructions are originated from code written with an object-oriented programming language, the object-oriented programming language comprising one or more of C++[[.]] and C# and Java[™].

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

CONCLUSION

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to KimbleAnn Verdi whose telephone number is (571)270-1654. The examiner can normally be reached on Monday-Friday 7:30am-5:00pm EST.

7. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hyung Sough can be reached on (571) 272-6799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Art Unit: 2194

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Hyung S. SOUGH/
Supervisory Patent Examiner, Art Unit 2194
09/30/10
September 24, 2010

KV